

## Microturbine Interface Module (mTIM) & E-Finity's Remote Monitoring System

The mTIM is designed to integrate multiple turbines and dispatch them thermally or electrically as a single power source.

- Automatically control up to 10 megawatts of turbines (C65/C200/C1000 Series)
- Maximize turbine array efficiency
- Balance run time of all engines to reduce maintenance costs
- Interface with supervisory systems (BMS, SCADA) via Modbus TCP/IP and Serial RS-485
- Intergrated customized touch screen HMI interface
- Advanced PLC control system providing flexibility and reliability
- Fully customizable to specific application
- Seamlessly integrates with E-Finity's Remote Monitoring System



### PLC System

- Adds redundancy to sites, eliminating having to designate one unit as the master
- PLC can be customized for balance of plant control
- Avoid control system development costs of common control schemes
- Load following capability with max efficiency mode
- Advanced diagnostics and data logging capable
- Align scheduled maintenance needs with runtime balance feature. The microturbine hours are equalized to maintain service intervals
- Sealed climate controlled enclosure eliminates dirt, dust, and heat, which increases reliability



# E-Finity's Remote Monitoring System

- Comprehensive web based monitoring of your Capstone power plant
- Touchscreen kiosk displays
- System alarms via email and text
- Balance of plant monitoring
- Custom event alarms
- Password protected portals
- Data logging and historian



## Data

Additional monitoring of:

- Ambient climate sensors
- Power meter
- BTU meter
- Switch/valve positions
- Chillers
- Heat Exchangers



## Archiving

- Meets grant program requirements
- Multi-year storage
- Web interface allows downloading in CSV format

## Troubleshooting

Allows E-Finity technicians to remotely troubleshoot, program, and upgrade turbines using factory software tools

